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 NEWS 10 JUN 02 The first reclassification of IPC codes now complete in
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 AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
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FILE 'HOME' ENTERED AT 14:54:10 ON 26 JUN 2006

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.42

0.42

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=> 666832-25-3

L1 1 666832-25-3
(666832-25-3/RN)

=> 666832-20-8

L2 1 666832-20-8
(666832-20-8/RN)

=> fil hcap uspatful

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.44

0.86

FILE 'HCAPLUS' ENTERED AT 14:55:24 ON 26 JUN 2006
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L3 4 L1 AND L2

=> 11

L4 4 L1

=> 12

L5 4 L2

=> d 13 1-4 ibib abs hitstr

L3 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:325686 HCAPLUS

DOCUMENT NUMBER: 142:374115

TITLE: Preparation of carboline-3-carboxylic acid conjugates with peptide sequences related to Ala-Arg-Pro-Ala-Lys and their use as thrombolytic agent

INVENTOR(S): Peng, Shiqi; Zhao, Ming; Wang, Chao; Wu, Yangfen

PATENT ASSIGNEE(S): Peop. Rep. China

SOURCE: U.S. Pat. Appl. Publ., 29 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005080015	A1	20050414	US 2003-680293	20031008
PRIORITY APPLN. INFO.:			US 2003-680293	20031008
OTHER SOURCE(S):	CASREACT	142:374115		

AB The invention relates to conjugates of peptides related to the sequence Ala-Arg-Pro-Ala-Lys (P6A) with (S)-1,2,3,4-tetrahydro- β -carboline-3-carboxylic acid for use as thrombolytic agents. Thus, 3S-1,2,3,4-tetrahydro- β -carboline-3-carboxyl-Ala-Arg-Pro-Ala-Lys-OH (11) was prepared by coupling of H-Ala-Arg(Tos)-Pro-Ala-Lys(ClZ)-OBzl.HCl (Tos = tosyl, ClZ = chlorobenzyloxycarbonyl; preparation given) with (S)-2-Boc-1,2,3,4-tetrahydro- β -carboline-3-carboxylic acid (Boc = tert-butoxycarbonyl), followed by deprotection with HF. Pseudopeptide 11 was assayed for thrombolytic activity in rats, showing a reduction in thrombolytic mass (x) of 14.01 ± 2.61 mg (vs. x = 18.844 ± 3.18 mg for P6A).

IT 666832-20-8P 666832-25-3P

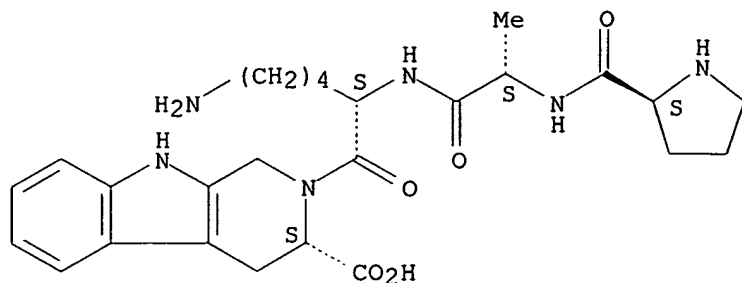
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of peptide-tetrahydrocarbolinecarboxylic acid conjugates as thrombolytic agents)

RN 666832-20-8 HCAPLUS

CN 1H-Pyrido[3,4-b]indole-3-carboxylic acid, L-prolyl-L-alanyl-L-lysyl-2,3,4,9-tetrahydro-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

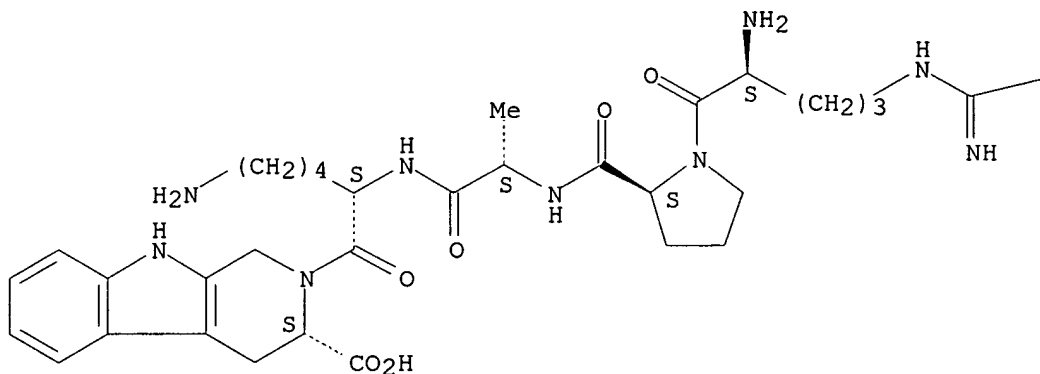


RN 666832-25-3 HCAPLUS

CN 1H-Pyrido[3,4-b]indole-3-carboxylic acid, L-arginyl-L-prolyl-L-alanyl-L-lysyl-2,3,4,9-tetrahydro-, (3S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

—NH₂

L3 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:114609 HCAPLUS

DOCUMENT NUMBER: 141:81672

TITLE: Synthesis and Thrombolytic Activity of Carboline-3-carboxylic Acid Modified Metabolites of Ala-Arg-Pro-Ala-Lys

AUTHOR(S): Zhao, Ming; Wang, Chao; Wu, Yanfen; Zhou, Kexiang; Peng, Shiqi

CORPORATE SOURCE: College of Pharmaceutical Sciences, Peking University, Beijing, Peop. Rep. China

SOURCE: Preparative Biochemistry & Biotechnology (2004), 34(1), 57-76

CODEN: PBBIF4; ISSN: 1082-6068

PUBLISHER: Marcel Dekker, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 141:81672

AB From the metabolism of H-Ala-Arg-Pro-Ala-Lys-OH, four metabolites, H-Pro-Ala-Lys-OH, H-Arg-Pro-Ala-Lys-OH, H-Ala-Arg-Pro-OH, and H-Ala-Arg-Pro-Ala-OH were identified. In order to find a new lead compound of thrombolytic peptide, 3S-1,2,3,4-tetrahydro- β -carboline-3-carboxylic acid was introduced to the N- and C-terminal of the metabolites by use of the common coupling strategy. Under this condition, the pseudopeptides were obtained with a good yield. The thrombolytic activities of 3S-1,2,3,4-tetrahydro- β -carboline-3-carboxylic acid containing oligopeptides were evaluated in vitro and in vivo. The result indicated that the thrombolytic activity of the pseudopeptide depended on the sequence and the modification pattern of the metabolites, and only when 3S-1,2,3,4-tetrahydro- β -carboline-3-carboxylic acid was introduced into the C-terminal of H-Pro-Ala-Lys-OH or H-Arg-Pro-Ala-Lys-OH, the desirable thrombolytic activity was retained and enhanced significantly.

IT 666832-20-8P 666832-25-3P

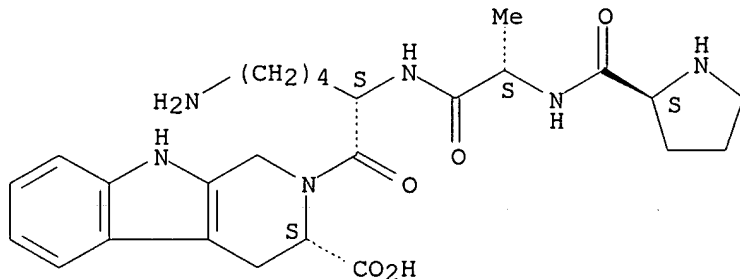
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(synthesis and thrombolytic activity of carboline-3-carboxylic acid modified metabolites of Ala-Arg-Pro-Ala-Lys)

RN 666832-20-8 HCAPLUS

CN 1H-Pyrido[3,4-b]indole-3-carboxylic acid, L-prolyl-L-alanyl-L-lysyl-2,3,4,9-tetrahydro-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

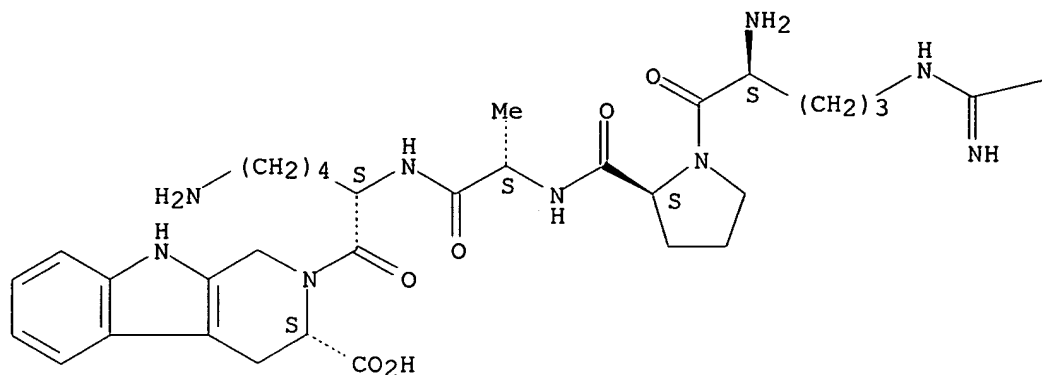


RN 666832-25-3 HCAPLUS

CN 1H-Pyrido[3,4-b]indole-3-carboxylic acid, L-arginyl-L-prolyl-L-alanyl-L-lysyl-2,3,4,9-tetrahydro-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

—NH₂

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:652809 HCAPLUS

DOCUMENT NUMBER: 140:231199

TITLE: Synthesis of compounds of fibrin degradation product P6A derivatives and carbolinecarboxylic acid and their use as antithrombics

INVENTOR(S): Peng, Shiqi; Zhao, Ming; Wang, Chao; Wu, Yanfang

PATENT ASSIGNEE(S): Guangzhou Baiyunshan Pharmaceutical General Factory, Guangzhou Baiyunshan Pharmaceutical Co., Ltd., Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 34 pp. CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1373139	A	20021009	CN 2002-100424	20020128
PRIORITY APPLN. INFO.:			CN 2002-100424	20020128

AB This invention provides a process of liquid synthesis of fibrin degradation product P6A derivs. The invention also provides a process of compound of P6A derivs. and carbolinecarboxylic acids. The compound can be used as antithrombics for treating coronary heart disease, brain thrombosis, myocardial infarction, cerebral embolism, lung embolism and venous thrombosis.

IT 666832-20-8P 666832-25-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

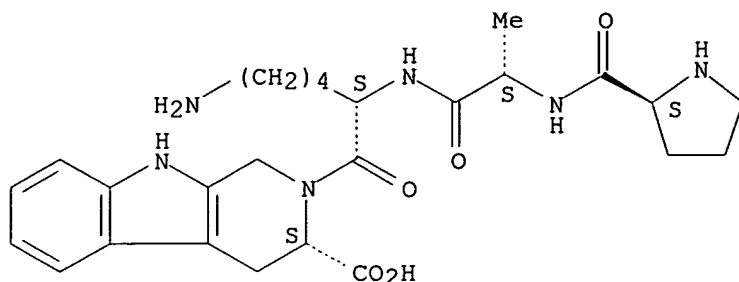
(synthesis of compds. of fibrin degradation product P6A derivs. and

carbolinecarboxylic acid and their use as antithrombics)

RN 666832-20-8 HCAPLUS

CN 1H-Pyrido[3,4-b]indole-3-carboxylic acid, L-prolyl-L-alanyl-L-lysyl-2,3,4,9-tetrahydro-, (3S)- (9CI) (CA INDEX NAME)

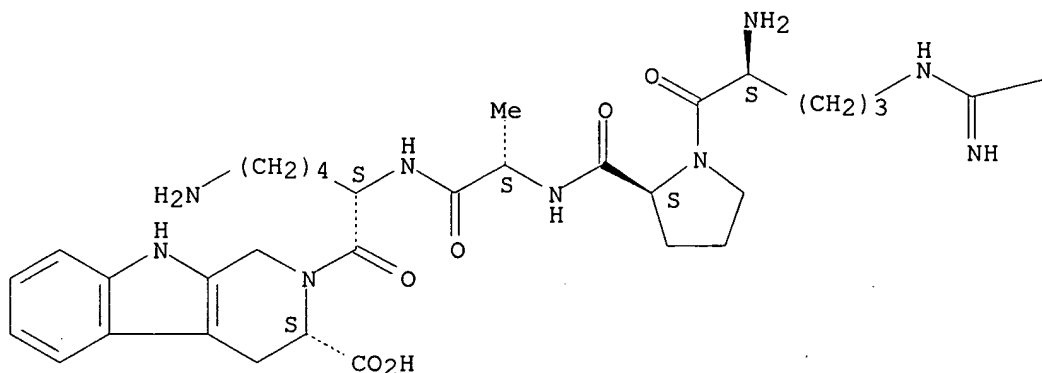
Absolute stereochemistry.



RN 666832-25-3 HCAPLUS

CN 1H-Pyrido[3,4-b]indole-3-carboxylic acid, L-arginyl-L-prolyl-L-alanyl-L-lysyl-2,3,4,9-tetrahydro-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



PAGE 1-A

PAGE 1-B

—NH₂

L3 ANSWER 4 OF 4 USPATFULL on STN

ACCESSION NUMBER: 2005:93337 USPATFULL

TITLE: Carboline-3-carboxylic acid modified related sequences of Ala-Arg-Pro-Ala-Lys, their synthesis and use as thrombolytic agent

INVENTOR(S): Peng, Shiqi, Beijing, CHINA
Zhao, Ming, Beijing, CHINA
Wang, Chao, Beijing, CHINA

Wu, Yangfen, Beijing, CHINA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005080015	A1	20050414
APPLICATION INFO.:	US 2003-680293	A1	20031008 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Finnegan, Henderson, Farabow,, Garrett & Dunner, L.L.P., 1300 I Street, N.W., Washington, DC, 20005-3315, US		
NUMBER OF CLAIMS:	28		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2425		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the protected intermediates and the deprotected products of P6A, related to the protected pseudopeptides introducing the protected intermediates of P6A to 3S-(2-Boc)-1,2,3,4-tetrahydro- β -carboline-3-carboxylic acid and the deprotected pseudopeptides, related to the protected pseudopeptides introducing the protected intermediates of P6A to 3S-1,2,3,4-tetrahydro- β -carboline-3-carboxylic acid benzyl ester, related to the methods for their preparation, and related to their use as the thrombolytic agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

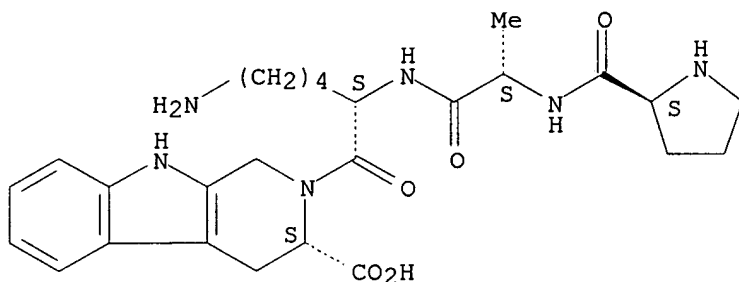
IT 666832-20-8P 666832-25-3P

(preparation of peptide-tetrahydrocarbolinecarboxylic acid conjugates as thrombolytic agents)

RN 666832-20-8 USPATFULL

CN 1H-Pyrido[3,4-b]indole-3-carboxylic acid, L-prolyl-L-alanyl-L-lysyl-2,3,4,9-tetrahydro-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

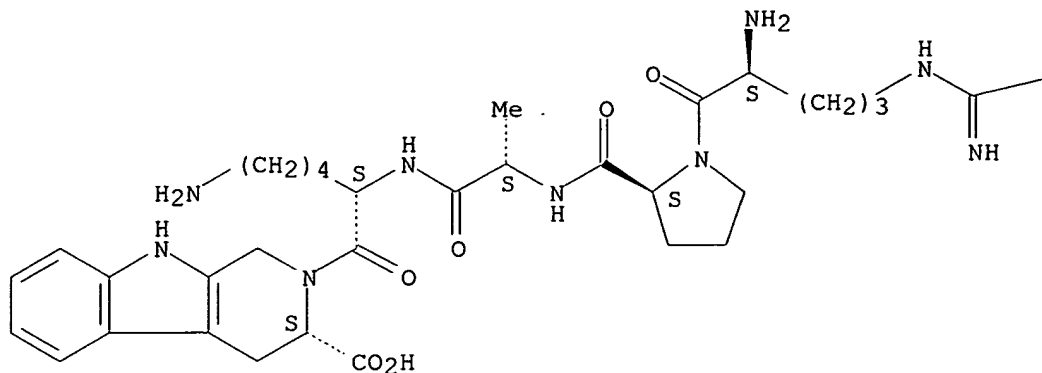


RN 666832-25-3 USPATFULL

CN 1H-Pyrido[3,4-b]indole-3-carboxylic acid, L-arginyl-L-prolyl-L-alanyl-L-lysyl-2,3,4,9-tetrahydro-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

—NH₂

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L2 1 SEA FILE=REGISTRY ABB=ON PLU=ON 666832-20-8
 L5 4 SEA L2

=> d his full

(FILE 'HOME' ENTERED AT 14:54:10 ON 26 JUN 2006)

FILE 'REGISTRY' ENTERED AT 14:55:01 ON 26 JUN 2006

L1 1 SEA ABB=ON PLU=ON 666832-25-3
 L2 1 SEA ABB=ON PLU=ON 666832-20-8

FILE 'HCAPLUS, USPATFULL' ENTERED AT 14:55:24 ON 26 JUN 2006

L3 4 SEA ABB=ON PLU=ON L1 AND L2
 L4 4 SEA ABB=ON PLU=ON L1
 L5 4 SEA ABB=ON PLU=ON L2
 D L3 1-4 IBIB ABS HITSTR
 D QUE STAT

FILE HOME

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DICTIONARY FILE UPDATES: 25 JUN 2006 HIGHEST RN 889359-45-9

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* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
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Structure search iteration limits have been increased. See HELP SLIMITS
for details.

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FILE HCAPLUS

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FILE COVERS 1907 - 26 Jun 2006 VOL 145 ISS 1
FILE LAST UPDATED: 25 Jun 2006 (20060625/ED)

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FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 22 Jun 2006 (20060622/PD)
FILE LAST UPDATED: 22 Jun 2006 (20060622/ED)
HIGHEST GRANTED PATENT NUMBER: US7065790
HIGHEST APPLICATION PUBLICATION NUMBER: US2006137066
CA INDEXING IS CURRENT THROUGH 22 Jun 2006 (20060622/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 22 Jun 2006 (20060622/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2006
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2006

LEVEL 1

AN 187351473 INPADOC ED 20021106 EW 200244 UP 20030527 UW 200321
TI CARBOLINE CARBOXYLIC ACID CONTAINING
P6A ASSOCIATED SEQUENCE AND SYNTHESIS
AND MEDICAL APPLICATION THEREOF.
IN SHIQI PENG; MING ZHAO; CHAO WANG
INS PENG SHIQI; ZHAO MING; WANG CHAO
INA CN; CN; CN
PA BAIYUNSHAN PHARMACEUTICAL GENERAL FACTORY, BAIYUNSHAN PHARMACEUTICAL CO.,
LTD, GUANGZHOU
PAS BAIYUNSHAN PHARMACEUTICAL GENE
PAA CN
TL English
DT Patent
PIT CNA UNEXAMINED APPLIC. OPEN TO PUBLIC INSPECTION
PI CN 1373139 A 20021009
AI CN 2002-100424 A 20020128
PRAI CN 2002-100424 A 20020128 (EDPR 20021106)
OSDW 2003-211533